

- Sub app. for primary CL II 4/20/81
to H.Q. for review -

- BETWEEN 4/20 & 7/16 rec'd - early
~~copy of~~ verbal comments

- AFTER July 16th - discussions between LAU & H.Q.
& LAU & COOK staff. Going over comments

- Sept 17, 1981 meeting - how to respond to H.Q.
7/16/memo - In addition to aquifer
assumptions.

- Re-injecting produced water/brines is
re-injected into prod. aquifer -- this
is vast majority of aquifer exempt.

Sept - ~~all other comments were ruled out~~
in disc. w/ DCOG - It
was ~~clear~~ that the prob. was going
to be aquifer exemption - spec. Re-inject.
brines into a non-prod aquifer.

After Sept - all other comments were resolved
except aquifer exemption.

~~Oct./Nov.~~

→ AERER Sept - prob w/ agui exempt.
criteria under existing regs would
have made it diff. to get agui exempt.
through.

Oct/Nov - Reg found that there was
an additional criterion for agui exempt.

FEB 10th, 1982 - NARE's son ill.

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

1416—9th STREET, ROOM 1310
SACRAMENTO, CALIFORNIA 95814
(916) 445-9686

March 12, 1982

Mr. Alan Levin
Director, State Programs Division
U.S. Environmental Protection Agency
Office of Water Supply WHSSO
401 M. Street, S.W.
Washington, D.C. 20460



Dear Mr. Levin:

California Application for Primacy
in the Regulation of Class II
Injection Wells Pursuant to
Section 1425 of the SDWA

I need to vent my frustration in writing. As you know, we submitted our application for primacy for Class II wells in California to the Regional Office on April 20, 1981. Since that time, we have had several meetings with Nathan Lau of the Regional Office to respond to questions regarding our application. We feel we have always responded to those questions in a timely and adequate fashion, no matter how trivial the question. Lau has always seemed satisfied, although we never received any formal request, acceptance, or rejection of the material we have submitted.

One session on September 17, 1981, was spent responding to questions raised by Phillip Tate in a July 16, 1981 memo to Bill Thurston. Following that session, things more or less came to a standstill. Response to our calls to the Regional Office regarding the status of our application and concern with the way things were progressing were always of a sympathetic and courteous nature, but nothing happened. This inaction prompted my call to you in January.

Your prompt action generated some response from the Regional Office. A meeting was set for February 10 and then postponed and held on February 17. At that session, we again discussed the MOU and responded to some concerns about some of our aquifer exemptions. At that time, I also asked for and received a hand-written schedule of events that were to occur over the next four months that would culminate with delegation of Primacy on June 28, 1982.


The results of that session were encouraging -- then the ultimate fiasco occurred. I received a draft letter from Lau asking us to respond to the questions that Phillip Tate had raised in his July 16, 1981 letter. These were questions we had responded to at sessions

held some seven months ago.

I immediately called Lau and told him that sending such a letter nine months after the questions had been raised made them look extremely foolish. But more importantly, that it is completely frustrating to me and my staff who have spent many hours on this project with apparently little headway being made. As a result of our talk, he has agreed not to send such a letter, but to meet with us on March 16, 1982 and get any information in writing that he needs to complete our application to his satisfaction. Hopefully, we are on the path to resolution of the problem, but I sometimes feel that our dealings with the Region Nine Office are going in ever-expanding circles.


For your information and record, I am enclosing a copy of our application minus two volumes of aquifer exemption material, the Phillip Tate letter with some pertinent comments in the margins, Alan Hager's letter in response to some of the Tate questions, and Lau's draft letter of March 10, 1987.

Sincerely,


M. G. Mefferd
State Oil and Gas Supervisor

MGM:iw

Enclosures

P.S. Talked to Frank Covington late yesterday. He was apologetic and said they had ~~tried~~ ^{hard} to resolve and that they would work ^{very} hard to resolve any problems with our application. I was thankful but pointed out that it had been eleven months since we had submitted what I considered to be a very strong and sound application. He reiterated his awareness of the situation and his desire to get things resolved. I'm keeping my fingers crossed.
Regards


THE AQUIFERS LINED OUT IN RED ARE ONES WHICH NEED NOT BE EXEMPTED BECAUSE THE FORMATION FLUID HAS A TOTAL DISSOLVED SOLIDS CONCENTRATION OF MORE THAN 10,000 MG/L. THIS IS DONE WITH THE ASSUMPTION THAT THE "E LOG CALCULATION" IS A VALID ESTIMATE AND AN "ANALYSIS FROM AN ADJACENT FIELD" IS REPRESENTATIVE OF THE ^{WHOLE} AQUIFER.

A ROMAN NUMERAL WRITTEN IN RED IS THE MINIMUM CRITERIA WHICH MUST BE MET TO EXEMPT THE SPECIFIC AQUIFER. THE CRITERIA IS MINIMUM IN THAT IT IS THE LEAST STRINGENT CRITERIA WHICH IF MET WOULD EXEMPT THE AQUIFER AS AN UNDERGROUND SOURCE OF DRINKING WATER (III IS LESS STRINGENT THAN IV WHICH IN TURN IS LESS STRINGENT THAN II).

WHERE AN AQUIFER IS MARKED WITH A "B" NEXT TO A ROMAN NUMERAL, THERE IS A QUESTION ABOUT WHETHER OR NOT THE AQUIFER SHOULD BE EXEMPTED. THE QUALITY OF THE INJECTION FLUID MAY BE DEMONSTRATED TO BE BETTER THAN THE FORMATION FLUID.

INJEC
START

DIST.

NONHYDROCARBON-PRODUCING ZONE INJECTION DATA

4/67

2/52

3/78

8/64

7/57

1, .6

1/75

7/75

7/77

7/77

1/69

		DIST.	FIELD	FORMATION & ZONE	TDS OF ZONE WATER PRIOR TO INJECTION	TDS OF INJECTED WATER	VOLUME INJECTED (Barrels)
				1 Belmont Offshore	Repetto	30,800	
				1 Huntington Beach	Lakewood		
					Alpha 1	37,200	
					Alpha 2	12,500	
				1 Sawtelle	Puente	25,500	
				1 Seal Beach	Repetto	29,700	
					Recent Sands	30,200	
				1 Wilmington	Caspur	28,200	
				1 "	River Gravels	30,800	
				2 Ramona	Pico	5,000	
				2 South Tapo Canyon	Pico	1,900 ppm NaCl	
				2 Oat Mountain	Undiff.	4,800	15,300 ppm NaCl 1,793,000
				2 Simi	Sespe	4,300	600 ppm NaCl 1,903,000
							23,800 ppm NaCl 91,000
							25,500 ppm NaCl 695,000
				3 Guadalupe	Knoxville	30,500	
				3 Lompoc	Lospe	119,000	
				3 Lompoc	Knoxville	30,500	
				3 Russell Ranch	Branch Canyon	13,000	
				3 San Ardo	Santa Margarita	3,700	5,600 81,800,000
				3 "	Monterey "D" Sand	4,600	5,600 13,795,000
				3 "	Monterey "E" Sand	6,400	5,600 6,057,000
				3 Santa Maria Valley	Lospe Franciscan	119,000	
				3 Monroe Swell	Santa Margarita	3,700 ppm NaCl	9,600 ?
				3 Point Conception	Camino Cielo	26,200	
				3 Guadalupe	Franciscan	30,500	
				4 Bellevue	Etcheگوین	26,500 (Analysis from adjacent field)	
				4 Bellevue, West	Tulare	12,000*	
				4 "	Etcheگوین	26,500 (Analysis from adjacent field)	
				IV 4 Blackwell's Corner	Tumey	2,100 -2,600*	29,000 ppm NaCl 400,000
				B III 4 Buena Vista	Tulare	9,200	5,300-36,500 50,798,000
				4 Cal Canal	Tulare San Joaquin	Excess of 10,000*	22,000 537,000
				4 Canfield Ranch	Etcheگوین	12,800 26,500 (Analysis from adjacent fields)	

"E" log calculation

JEC
ART

	III 5	Guijarral Hills	Etchegoin-Jacalitos	9,400	20,500	931,000
	5	Helm	Santa Margarita	35,900		(143,000,000)
	III 5	"	Tulare-Kern River	5,100-23,900	11,600-43,400	(
	5	Jacalitos	Etchegoin-Jacalitos	33,749	5,500 (CI only)	180,000
	5	Kettleman North Dome	San Joaquin-Etchegoin	10,000	23,800-31,200	48,608,000
	5	Raisin City	Pliocene	12,800-34,000		
	5	"	Santa Margarita	35,000	(Analysis from Helm field)	
0	III 5	Riverdale	Pliocene	4,788-16,200		(72,626,000)
	5	"	Santa Margarita	35,900	(Analysis from Helm field)	(
n	5	San Joaquin	Pliocene	17,100		
	5	San Joaquin, Northwest	Basal McClure	90,000	18,500	Test well no injecti
1	III 5	Turk Anticline	San Joaquin	3,700- 4,440	9,500- 9,800	466,000
3	IV 6	Bunker Gas	Undiff.	1,200	11,000	388,000
	6	Grimes Gas	Kione	16,800		
	6	Grimes, West, Gas	Kione	34,000*		
	6	La Honda (South Area)	Vaqueros	41,000		
	6	Lathrop Gas	Starkey	15,400*		
9	III 6	River Break Gas	Capay	6,900*	7,000	93,000
5	6	Roberts Island Gas	Undiff.	18,000*		
5	IV 6	Sutter Buttes Gas	Kione	2,500	4,600-23,000	644,000
4	III 6	Union Island Gas	Mokelumne River	5,000-6,000*	7,800	471,000
	IV 6	Wild Goose	Undiff.	2,800-5,000*	21,400	823,000

* "E" log calculation